PATENT

03AB159

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:			
Applicant(s):	Frederick M. Discenzo	Examiner:	Daniel Sean Larkin
Serial No:	10/675,846	Art Unit:	2856
Filing Date:	September 30, 2003		

Title: LUBRICITY MEASUREMENT USING MEMS SENSOR

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

REPLY TO RESTRICTION REQUIREMENT DATED JANUARY 25, 2005

This Reply is in response to the Restriction Requirement mailed on January 25, 2005 in connection with the above-identified patent application.

The Examiner requires restriction to two of the following ten alleged species; one relating to process claims (claims 8, 9, and 10) and one relating to multi-element claims (claims 13-20):

Species 1 – The species of using a chemical model to calculate the lubricity as embodied in claim 8.

Species 2 – The species of using one or more artificial neural networks to calculate the lubricity as embodied in claim 9.

Species 3 – The species of using one of a support vector machine, expert system, Bayesian belief network, fuzzy logic algorithm, and a data fusion engine to calculate the lubricity as embodied in claim 10.

Species 4 – The species of utilizing a multi-element sensor comprising a three-electrode electro-chemical sensor as embodied in claim 13.

Species 5 – The species of altering an electro-static field in the vicinity of the multi-element sensor as embodied in claim 14.

Species 6 – The species of utilizing a multi-element sensor having a plurality of finger-like elements, wherein the spacing between three or more finger-like elements is different as embodied in claim 15.

Species 7 – The species of utilizing a multi-element sensor having two surfaces that generate frictional forces between the two surfaces as embodied in claim 17.

Species 8 – The species of utilizing a multi-element sensor having two surfaces that generate frictional forces between the two surfaces, wherein at least one of the two surfaces comprises an insulating layer as embodied in claims 17 and 18.

Species 9 – The species of utilizing a multi-element sensor having two surfaces that generate frictional forces between the two surfaces, wherein at least one of the two surfaces comprises a layer of material that readily wears as embodied in claims 17 and 19.

Species 10 – The species of utilizing a multi-element sensor comprising a rotating disk and a surface that tangentially contacts the rotating disk as embodied in claim 20.

Claims 1-7, 11, 12, and 21-24 have been deemed generic.

Applicant's representative hereby elects with traverse Species 1 (Claim 8, drawn to a system for utilizing a chemical model to calculate lubricity) and Species 8 (Claims 17 and 18, drawn to a multi-element sensor having two surfaces that generate frictional forces between the two surfaces, wherein at least one of the two surfaces comprising an insulating layer) for further prosecution on the merits together with generic claims 1-7, 11, 12, and 21-24.

Should there be any questions regarding this paper, the Examiner is invited to contact applicant's undersigned representative at the telephone number below.

In the event any fees are due in connection with submission of this document, the Commissioner is authorized to charge such fees to Deposit Account No. 50-1063 [ALBRP326US].

Respectfully submitted,

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